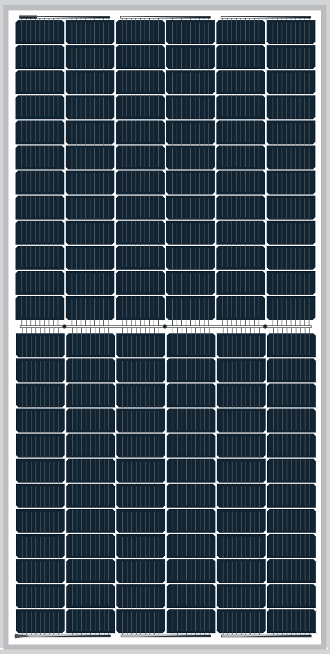
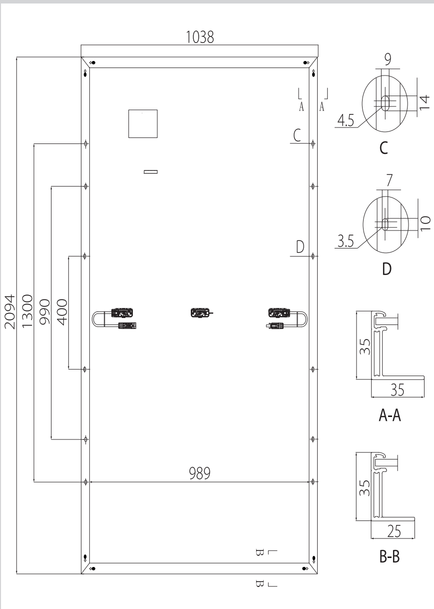
BMA(-HV)-440 BMA(-HV)-445
BMA(-HV)-450

JHB: Tel: 011 462-4253 / Tel: 010 591-1713
KZN (Durban): Tel: 031 569-2854
CPT (CapeTown): Tel: 021-300-1727
Mbombela: Tel: 013 004-0012
Tshwane: Tel: 012 763-9300

Engineering Drawings (Front Side)



Engineering Drawings (Back Side)



Current Automation
POWER SOLUTION PROVIDERS

Raw materials and Mechanical Parameters

	BMA(-HV)-440 BMA(-HV)-445 BMA(-HV)-450
NO. of Cells and Connections	6x24=144
Dimensions(mm)(L*W*H)	2094x1038x35
Weight(kg)	23.5
Glass	3.2mmTempered Glass
Encapsulation	EVA
Backsheet	Multilayer Composite
Aluminium−Frame	Silvery/Black Anodized aluminium alloy
Junction−Box	IP68
Cable	$4mm^2$,300mm(length can be customized)
Connector	MC4 and MC4 Compatible
20HQ	150pcs
40HQ	660pcs

Performance Parameters

	BMA(-HV)-440 BMA(-HV)-445 BMA(-HV)-450
Maximum System Voltage	1500 V
Operating Temperature	−40~+85℃
Maximum Series Fuse	20A
Maximum Static Load,Front Side (e.x. Snow,Wind)	5400Pa
Maximum Static Load, Back Side(e.x. Wind)	2400Pa
Application Grade	Class A

Electrical Parameters (Standard Test Condition)

	BMA(-HV)-440	BMA(-HV)-445	BMA(-HV)-450
Rated Maximum Power(Mp)	440W	445W	450W
Power Tolerance		0− +5W	
Module Efficiency	20.2%	20.5%	20.7%
Open Circuit Voltage(Voc)	48.9V	49.1V	49.3V
Maximum Power Voltage(Vmp)	41.1V	41.3V	41.5V
Short Circuit Current(Isc)	11.46A	11.53A	11.6A
Maximum Power Current(Imp)	10.71A	10.78A	10.85A
Temperature Coefficient of Isc		+0.048%	
Temperature Coefficient of Voc		-0.27%	
Temperature Coefficient of Pmp		-0.35%	
Standard Test Condition	Irradiance:1000W/M2,Cell Temperature:25℃,Spectrum AM:1.5		

The Electrical Parameters of the module are the average theory figure under the standard test condition, each one exists difference. Can not be treated as the basis of module delivery.